DX-Required and Recommended fields and Clinician list

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1. Introduction:

This document will need to be completed by a person familiar with HL7 2.5.1 and your EHR system. Review the latest NCIR LIG and then, complete the information requested below. The purpose of this document is to identify the changes needed to your EHR system to meet the NCIR specifications.

Pre-requisite:

- A. You will need a baseline VXU/ACK and QBP/RSP HL7 2.5.1 message from your EHR to complete this document.
- B. Prior to completing this document, review the NCIR specs (VXU/ACK and QBP/RSP LIG).

	Version	Available versions
EHR Certification Version		2015 Edition Final Rule 2014 Edition Release 2 2014 Edition 2011 Edition

2. VXU - EHR Survey of Required and Optional fields

2.2 Message Header Segment

Data Element Name [VXU and QBP field location] Organization	Does your EHR currently send this data as part of an HL7 message? (Yes or No)	Meets NCIR specifications? (Yes or No) If No, what changes are needed to meet NCIR VXU/ACK specs:	Notes
Fields:			
Encoding Characters VXU: MSH-2 ^~\&			
Sending Application VXU: MSH-3			
Sending Facility VXU: MSH-4			NCIR will provide this value during onboarding
Receiving Facility VXU: MSH-6			
Of Message VXU: MSH-7			

Message Type VXU: MSH-9 VXU^V04^VXU _V04		
Message Control ID VXU: MSH-10		
Processing ID VXU: MSH-11 Value is P		
Version ID VXU: MSH-12 2.5.1		
Accept Acknowledg ment Type VXU: MSH-15		

2.3 Client

Data Element Name [VXU field location]		me collect U field this ation] data? (Yes or No)		your EHR collect J field this tion] data? (Yes or		Do you send this data as part of HL7 transactio ns? (Yes or No)	Meets NCIR specifications? (Yes or No) If No, what changes are needed to meet NCIR VXU/ACK specs:	Notes
Organiza Fields:	tion							
Chart Nu Organiza identifier client. VXU: PID-3	tion for					The value sent here must be the value providers enter in the chart # field of the NCIR. Check what your organization currently uses in chart # field of the NCIR UI and use that. This can be MRN# if that is the number your users are currently entering in the NCIR chart # field.		
Patient Name	Last, First and Middle Name PID-5.1-3							
VXU: PID-5	Name type code PID-5.7 "L" for Legal.	N/A						
Mother's Last and Name VXU: PID-6	Maiden First							

Date of bir	th				
Gender VXU: PID-8					
Race VXU: PID-10					
	Street address PID-11.				
	PID-11. State PID-11.4				
Patient Address VXU: PID- 11	County PID-11.9				Used as county of residence.
	Zip code PID-11.5				
	Address type PID-11.7 Use "M"	N/A	N/A		
Patient Phone	Telecom use code PID-13.2 Use "PRN"	N/A	N/A		
Number VXU: PID- 13	Area code PID-13.6				
	Local number PID13.7				
Ethnic grou VXU: PID-22					
Multiple bi indicator VXU: PID-24					
Multiple b	irth order				
Death date VXU: PID-29					
Death indicator VXU: PID-30					
	Immunization Registry status				
Active, Inact Permanently	ive,				

2.3.2 Responsible Person

Responsib Fields: Note: Resp	oonsible sent in VXU QBP.	Does your EHR collect this data? (Yes or No)	Is this required Field in your EHR? (Yes or No)	Do you send this data as part of HL7 transactions ? (Yes or No)	Meets NCIR specifications? (Yes or No) If no, what changes are needed to meet NCIR VXU/ACK specs:	Notes NCIR will need at least one responsible person per client for ages less than 19 years. For over 19 years, address/phone need to be in either in PID-11/13 or NK1. (Refer to NCIR LIG for details.)
Respons ible person First and Last Name VXU: NK1-2	Last, First and Middle Name NK1-2.1-3 Name type NK1-2.7					
Relationsh VXU: NK1-3	ip to client					
Respons ible person's	Telecom use code NK1-5.1 Use "PRN"	N/A	N/A			
phone number VXU: NK1-5	Area code NK1-5.5 Local number					
	NK1-5.6 Street address City					
Respons ible	State					
person's address VXU:	County Zip code					
NK1-4	Address type Use "M"	N/A	N/A			
Responsib primary la VXU: NK1-2	le person's nguage					
Responsib accepts re notices or VXU: NK1-2	m/recall not					Referred to as notices in the NCIR UI.

2.3.3 Client comments

Client Comments	Does your EHR collect this data? (Yes or No)	Is this required Field in your EHR? (Yes or No)	Do you send this data as part of HL7 transactions? (Yes or No)	Meets NCIR specifications? (Yes or No) If No, what changes are needed to meet NCIR VXU/ACK specs:	Notes Client comments are vaccine deferrals due to a reason. For ex. Allergy to Gelatin.
Set ID-OBX-1 VXU: OBX-1	N/A	N/A			
Value Type VXU: OBX-2	N/A	N/A			
Client Comment VXU: OBX-3 and OBX- 5					List of Client comments are in the LIG appendix.
Applies-To Date VXU: OBX-14					

2.4 Immunization Information Survey of required/optional fields:

Owned dose – Owned dose is dose administered by your organization. This can be state supplied vaccine or privately purchased vaccine.

Historical dose – Historical dose is dose that you recorded in the EHR that was administered by another organization

Note: Refusals are sent as RXA's and refer to VXU LIG under RXA-18 for examples for refusals.

2.4.2 Owned Doses and refusals:

Owned Doses Immunization Fields:		Does your EHR collect this data for owned dose? (Yes or No)	Is this required Field in your EHR for Owned Dose? (Yes or No)	Does you EHR send this field to NCIR as part of Data Exchange? (Yes or No)	Meets NCIR specifications? (Yes or No) If no, what changes are needed to meet NCIR VXU/ACK specs:	Notes
Dose date VXU: RXA-3						
Administer	CVX Code (RXA-5, First Triplet)					
ed code VXU: RXA-5 Requires both CVX and Trade name	NCIR Tradename Code (RXA-5, Second Triplet)					
Administer ed Amount	Dose VXU: RXA-6					

ı		1	1	T	
Unit					
RXA-7					
Administered notes					
VXU: RXA-9					
Administering provider or	'				
clinician					
VXU: RXA-10					
Ordering Provider					
VXU: ORC-12					
Administering location					
VXU: RXA-11					
Lot Number					
VXU: RXA-15					
Expiration Date					
VXU: RXA-16					
Manufacturer Name					
VXU: RXA-17					
Action Code-RXA					
VXU: RXA-21					
Route of administration					
VXU: RXR-1					
Administration (body) Site					
VXU: RXR-2					
Eligibility Code					
VXU: OBX-3/OBX-5					
Observation Method					
VXU: OBX-17					
If 64994-7, then VXC41 or					
VXC40.					
Funding code					
VXU: OBX-3/OBX-5					
VIS presented date					
VXU: OBX-3/OBX-5					
VIS published date					
VXU: OBX-3/OBX-5					
Date/Time Observation					
VXU: OBX-14					
Order Control					
VXU: ORC-1					
Use "RE"					
Filler Order Number					
VXU: ORC-3					
Give Sub-ID Counter	N/A		N/A		
VXU: RXA-1					
Administration Sub-ID			27/4		
Counter	N/A		N/A		
VXU: RXA-2					
Substance/treatment					If completion status
Refusal Reason					is RE, then this shall
VXU: RXA-18					be populated
Completion Status					
VXU: RXA-20					
Populated with: PA, CP, RE, NA	A				
or DE. Use CP for completed;					
RE for refusal					
Action Code					
VXU: RXA-21					
		I.		l .	

2.4.3 Historical Dose:

	ibtor rea	Dose:			1	
Historical D Immunizati		Does your EHR collect this data for Historical dose? (Yes or No)	Does your EHR send this field to NCIR as part of Data Exchange? (Yes or No)	Is this required Field in your EHR for historical Dose? (Yes or No)	Meets NCIR specifications? (Yes or No) If no, what changes are needed to meet NCIR VXU/ACK specs:	Notes
Dose date VXU: RXA-3						
Administer ed code	CVX Code (RXA-5, First Triplet)					
VXU: RXA-5 CVX code sufficient for historical	CPT/ NCIR Tradename Code/VGC (RXA-5, Second Triplet)					
Administere (Dosage and VXU: RXA-6 (d	unit)					
(unit) Administere VXU: RXA-9						
Administerin or clinician VXU: RXA-10	ng provider					
Ordering Pro VXU: ORC-12 Administerin						N . N 1 1 1 1 1 1 1 C
VXU: RXA-11 Lot Number	ig location					Note: Needed field for historical dose.
VXU: RXA-15 Expiration Day VXU: RXA-16	ate					
Manufacture VXU: RXA-17						
Route of adn VXU: RXR-1 Administrati						
Site VXU: RXR-2						
Eligibility Co-						
VXU: OBX-3 VIS presente						
VXU: OBX-3 VIS published VXU: OBX-3	d date					

2.5 List your administering clinician and ordering provider

Note: NCIR will use the address of organization to complete the address of the clinician and ordering authority in the NCIR. If a different address is needed, just specify.

Add additional rows as needed if you have more than three clinicians and ordering authority.

	First Name	Middle Name	Last Name	Credentials	Email address	Address	Phone Number
Administering Clinician Name 1							
Ordering Provider 1							
Administering Clinician Name 2							
Ordering Provider 2							
Administering Clinician Name 3							
Ordering Provider 3							

Fax to 919 870-4824 or email to ncirdataexchange@dhhs.nc.gov

Note:

Credentials for Administering Clinician are listed below:

- 1) Certified Medical Assistant
- 2) Certified Nurse Midwife
- 3) Certified Nurse's Assistant
- 4) Doctor of Medicine
- 5) Doctor of Osteopathy
- 6) Licensed Practical Nurse
- 7) Medical Assistant
- 8) Nurse Practitioner
- 9) Registered Nurse
- 10) Registered Pharmacist
- 11) Physician's Assistant
- 12) Other

Credentials for **Ordering Clinician** are listed below:

- 1) Doctor of Medicine
- 2) Doctor of Osteopathy
- 3) Nurse Practitioner
- 4) Physician's Assistant

2.6 Consumption of Acknowledgement returned

2.6.2 Error Field Definitions

Data Elements:	Do you use this field from response in the EHR? (Yes or No)	Notes
Error Location		
VXU: ERR-2		
HL7 Code		
VXU: ERR-3		
Severity		
VXU: ERR-4		
Application Error Code		
VXU: ERR-5		
User Message		
VXU: ERR-8		

2.6.3 MSA segment

Data Elements:	Do you use this field from response in the EHR? (Yes or No)	Notes
Acknowledgment Code VXU: MSA-1		
Message Control ID VXU: MSA-2		

2.7 Questions for VXU

1. How do you handle Error/warnings returned from the NCIR in response to VXU? Does the user have the ability to view the acknowledgment in real time or as needed after administration and recording of a dose?

2. What information do you send in the PID-3 field? Does that field contain the same value that is currently entered in the NCIR chart # field?

2.7.3 Provide HL7 example

Provide an example of your HL7 code (including an example of historical and administered dose):

3. QBP and RSP

3.2 MSH – Message Header Segment

Data Element Name [VXU and QBP field location]	Do you send this data as part of HL7 transactions? (Yes or No)	Meets NCIR specifications? (Yes or No) If no, what changes are needed to meet NCIR QBP/RSP specs:	Notes
Organization Fields:			
Sending Application MSH-3			
Sending Facility MSH-4			NCIR will provide value at the time of onboarding.
Receiving Facility MSH-6			
Date/Time of message MSH-7			
Message Type MSH-9 QBP^Q11^QBP_Q11			
Message Control ID MSH-10			
Processing ID MSH-11 Use "P"			
Version ID MSH-12 Use 2.5.1			

Accept Acknowledgement Type MSH-15		
Message Profiler		
Identifier		
MSH-21		
Inbound: Z34^CDCPHINVS		
Z32^CDCPHINVS (an exact		
match was found)		
Z33^CDCPHINVS (no		
candidate was found)		
Z31^CDCPHINVS (multiple		
candidate list).		

3.3 QPD Segment:

	beginent	- -				T
Data Eleme [VXU and Q location]		Does your EHR collect this data? (Yes or No)	Is this required Field in your EHR? (Yes or No)	Do you send this data as part of HL7 transactions? (Yes or No)	Meets NCIR specifications ? (Yes or No) If no, what changes are needed to meet NCIR QBP/RSP specs:	Notes
Organization	Fields:					Refer to LIG for details and example. HL7 field locations are listed here for convenience only.
NCIR Client id QBP: QPD-3 (SI		N/A	N/A	N/A		Not applicable for incoming transaction. FYI - NCIR sends NCIR client id in RSP response and can store and resend.
Chart Number Organization client. QBP:QPD-3 – U	identifier for					Send what the providers currently enter in the chart # field of the NCIR if available.
Patient Name QBP: QPD-4	Last, First and Middle Name QPD-4.1-3 Name type code QPD-4.7 Use "L" for legal					

	1	T	T	1	1
Mother's M First Name QBP: QPD-5	aiden Last and				
Date of birtl QBP: QPD-6	า				
Gender QBP: QPD-7					
	Street address QPD-8.				
	City QPD-8.				
	State QPD4				
Patient Address QPD: QPD-8	County QPD-8.9				
	Zip code QPD-8.5				
	Address type QPD-8.7 Use "M" for mailing.				
Patient Phone	Telecom use code QPD-9.2 Use "PRN"				
Number QPD: QPD-9	Area code QPD-9.6				
	Local number QPD9.7				
Multiple bir QPD: QPD-10					
Multiple bir QPD: QPD-11	th order				

3.4 RCP – Response Control Parameter Segment (QBP only)

Data Element Name [VXU and QBP field location]	Does your EHR collect this data? (Yes or No)	Is this required Field in your EHR? (Yes or No)	Do you send this data as part of HL7 transactions? (Yes or No)	Meets NCIR specifications? (Yes or No) If no, what changes are needed to meet NCIR specs:	Notes
Organization Fields:					
Query Priority RCP-1 Empty or 1					
Quantity Limited Request RCP-2 First component is count, second component is "RD" for records					
Response Modality RCP-3					

3.4.1 List the fields that your EHR consumes and displays from the RSP response returned by the NCIR?

3.4.2 QBP RSP Segment – No match

Data Element Name [RSP field location]	Does your EHR absorb or use this information from RSP? (Yes or No)	Is this data displayed to the user? (Yes or No)
Organization Fields:		
Acknowledgment Code RSP:MSA-1		
Message Control ID RSP:MSA-2		
Message Profile Identifier RSP-MSH-21		
Acknowledgement RSP:QAK-2		
Error location RSP:ERR-2		
Severity RSP:ERR-4		
Application Error Code RSP:ERR-5		
User Message RSP:ERR8		

3.4.3 QBP RSP Segment – Multi match

Data Element Name [RSP field location]	Does your EHR absorb or use this information from RSP? (Yes or No)	Is this data displayed to the user? (Yes or No)
Organization Fields:		
Acknowledgment Code RSP:MSA-1		
Message Control ID RSP:MSA-2		
Query Tag RSP:QAK-1		
Query Response Status RSP:QAK-2		
Message Profile Identifier RSP:MSH-21		
Error location RSP:ERR-2		
Severity RSP:ERR-4		
Application Error Code RSP:ERR-5		
User Message RSP:ERR8		
Multiple PID segments		
Multiple corresponding NK1 segments		

3.4.4 OBP RSP Segment – Exact Match

110	1 beginent 1		
Data Element Name [RSP field location]		Does your EHR absorb or use this information from RSP? (Yes or No)	Is this data displayed to the user? (Yes or No)
elds:			
nt Cod	le		
ol ID			
e Statu	IS		
e Ident	ifier		
er defi t	nition		
er (exa	•		
rson	Last, First and Middle Name NK1-2.1-3		Is Responsible person information returned in the RSP displayed to the end user?
RSP: NK1-2 Name type NK1-2.7			
mber			
der			
RSP:R			
RSP:RXA-7			
Administered notes RSP:RXA-9			
Administering location RSP:RXA-11			
1			
Name			
	Name ation] elds: ent Cod ol ID e Statu e Ident er defi t er (exa : rson ame The CVX RSP: F Dose RSP:R Unit RSP:R octes orovide	Name ation] elds: Int Code ol ID e Status e Identifier er definition t er (exact) Exact Last, First and Middle Name NK1-2.1-3 Name type NK1-2.7 mber der CVX Code RSP: RXA-5(First Triplet) Dose RSP:RXA-6 Unit RSP:RXA-7 ootes provider or clinician ocation	rition from RSP? (Yes or No) elds: Int Code ol ID e Status e Identifier er definition t err (exact) Last, First and Middle Name NK1-2.1-3 Name type NK1-2.7 Middle Name NK1-2.7 Name type NK1-2.7 Middle Name NK1-2.7 Name type NK1-2.7 Middle Name NK1-2.7 Name type NK1-2.7 Obse RSP: RXA-5(First Triplet) Dose RSP:RXA-6 Unit RSP:RXA-7 otes Drovider or clinician Drovider or

Substance/treatment Refusal Reason RSP:RXA-18	
Completion Status RSP:RXA-20	
Error location RSP:ERR-2	
Severity RSP:ERR-4	
Application Error Code RSP:ERR-5	
User Message RSP:ERR8	
VIS Presented Date RSP:OBX-5	
VIS Published Date RSP:OBX-5	
Funding Code RSP:OBX-5	
Eligibility Code RSP:OBX-5	
Vaccine recommendation fields listed below:	
Vaccine due next RSP:OBX-5	
Date vaccine due RSP:OBX-5	
Vaccine due next dose RSP:OBX-5	
Earliest date to give RSP:OBX-5	

4.0 Timeline for modification needed to meet NCIR LIG:		
1. Availability of VXU/ACK modifications:		
2. Availability of QBP/RSP modifications		

Appendix I: List of Immunization Data Elements expected by the NCIR for each type of dose

Note: This table is provided for information purposes. No action needed in this page.

Data elements	Owned dose	Historical dose
Dose date	Required	Required
Administered code	Required CVX and NCIR Trade Name code Value in First and Second triplet must correspond to each other	Required CVX and/or (CPT or Trade Name) For Historical, second code (CPT or Trade Name) is optional. If both provided, two must correspond to each other.
Administered Amount (Dosage and unit)	Required	No.
Administered notes	Required 00 (for owned dose or administered by the organization)	Required 01 (for historical dose)
Administering provider or clinician	Required Set up list of clinicians in the NCIR and obtain a list with names to use.	No.
Ordering Provider	Required Set up list of ordering providers in the NCIR and obtain a list with names to use.	No.
Administering location	Required Name of Site and Site Id from NCIR. Obtain list of sites from NCIR using Manage Site screen.	Free text location.
Lot Number	Required	Optional
Expiration Date	Required	No.
Manufacturer Name	Required	No.
Route of administration	Required	No.
Administration (body) Site	Required	No.
Eligibility Code	Required Only for State supplied Owned doses. Does not apply for privately purchased doses administered by an organization.	No.
Funding code	Required Only for state supplied doses if decrementing inventory functionality is used.	No.
VIS presented date	Required	No
VIS published date	Required	No